

SEQUENCE LISTING

<110> Bolt, Sarah L.
Clark, Michael R.
Gorman, Scott D.
Routledge, Edward G.
Waldmann, Herman

<120> HUMANIZED ANTI-CD3 SPECIFIC ANTIBODIES (as amended)

<130> bolt et al

<140> 08/478,684

<141> 1995-06-07

<150> 9206422.9

<151> 1992-03-24

<150> PCT/GB92/01933

<151> 1992-10-21

<160> 26

<170> PatentIn Ver. 2.1

<210> 1

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
peptide

<400> 1

Ser Phe Pro Met Ala

1

5

<210> 2

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
peptide

<400> 2

Thr Ile Ser Thr Ser Gly Gly Arg Thr Tyr Tyr Arg Asp Ser Val Lys Gly

1

5

10

15

<210> 3

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial peptide

<400> 3

Phe Arg Gln Tyr Ser Gly Gly Phe Asp Tyr
1 5 10

<210> 4

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial peptide

<400> 4

Thr Leu Ser Ser Gly Asn Ile Glu Asn Asn Tyr Val His
1 5 10

<210> 5

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial peptide

<400> 5

Asp Asp Asp Lys Arg Pro Asp
1 5

<210> 6

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial peptide

<400> 6

His Ser Tyr Val Ser Ser Phe Asn Val
1 5

<210> 7

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial peptide

<400> 7

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
20 25 30

<210> 8

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial peptide

<400> 8

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
1 5 10

<210> 9

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial peptide

<400> 9

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
1 5 10 15

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys
20 25 30

<210> 10

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial peptide

<400> 10

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

1 5 10

<210> 11
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
peptide

<400> 11
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe
20 25 30
Pro Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ser Thr Ile Ser Thr Ser Gly Gly Arg Thr Tyr Tyr Arg Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Lys Phe Arg Gln Tyr Ser Gly Gly Phe Asp Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 12
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
peptide

<400> 12
Asp Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15
Thr Val Ile Ile Ser Cys
20

<210> 13
<211> 15

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
peptide

<400> 13
Trp Tyr Gln Gln Arg Pro Gly Arg Ala Pro Thr Thr Val Ile Phe
1 5 10 15

<210> 14
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
peptide

<400> 14
Gly Val Pro Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Asn Ser
1 5 10 15

Ala Ser Leu Thr Ile Ser Gly Leu Gln Thr Glu Asp Glu Ala Asp Tyr
20 25 30

Tyr Cys

<210> 15
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
peptide

<400> 15
Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
1 5 10

<210> 16
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
peptide

<400> 16
Asp Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys

1	5	10	15
Thr Val Ile Ile Ser Cys Thr Leu Ser Ser Gly Asn Ile Glu Asn Asn	20	25	30
Tyr Val His Trp Tyr Gln Gln Arg Pro Gly Arg Ala Pro Thr Thr Val	35	40	45
Ile Phe Asp Asp Asp Lys Arg Pro Asp Gly Val Pro Asp Arg Phe Ser	50	55	60
Gly Ser Ile Asp Arg Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly	65	70	75
Leu Gln Thr Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser Tyr Val Ser	85	90	95
Ser Phe Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu	100	105	110

<210> 17
 <211> 15
 <212> DNA
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: unknown

<400> 17
 agctttccaa tggcc 15

<210> 18
 <211> 51
 <212> DNA
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: unknown

<400> 18
 accattagta ctagtggtgg tagaacttac tatcgagact ccgtgaaggg c 51

<210> 19
 <211> 30
 <212> DNA
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism: unknown

<400> 19
 tttcggcagt acagtgggtgg ctttgattac 30

<210> 20
<211> 39
<212> DNA
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: unknown

<400> 20
acactcagct ctggtaacat agaaaacaac tatgtgcac 39

<210> 21
<211> 21
<212> DNA
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: unknown

<400> 21
gatgatgata agagaccgga t 21

<210> 22
<211> 27
<212> DNA
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: unknown

<400> 22
cattcttatg ttagtagttt taatgtt 27

<210> 23
<211> 357
<212> DNA
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: unknown

<400> 23
gaggtccaac tgctggagtc tgggggcggt ttagtgcagc ctggaggggc cctgagactc 60
tcctgtgcag cctcaggatt cactttcagt agctttccaa tggcctgggt ccgccaggct 120
ccaggaagg gtctggagtg ggtctcaacc attagtacta gtggtggtag aacttactat 180
cgagactccg tgaagggccg attcactatc tccagagata atagcaaaaa taccctatac 240
ctgcaaatga atagtctgag ggctgaggac acggccgtct attactgtgc aaaatttcgg 300
cagtacagtg gtggctttga ttactggggc caagggaccc tggtcaccgt ctctca 357

<210> 24
<211> 330
<212> DNA
<213> Unknown Organism

<220>

<223> Description of Unknown Organism: unknown

<400> 24

```
gacttcatgc tgactcagcc ccactctgtg tctgagtctc ccggaaagac agtcattatt 60
tcttgcacac tcagctctgg taacatagaa aacaactatg tgactggta ccagcaaagg 120
ccgggaagag ctcccaccac tgtgattttc gatgatgata agagaccgga tgggtgccct 180
gacaggttct ctggctccat tgacaggtct tccaactcag cctccctgac aatcagtggg 240
ctgcaaactg aagatgaagc tgactactac tgtcattctt atgttagtag ttttaatgtt 300
ttcggcggtg gaacaaagct cactgtcctt 330
```

<210> 25

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
peptide

<400> 25

```
Asp Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1              5              10              15

Thr Val Ile Ile Ser Cys Thr Leu Ser Ser Gly Asn Ile Glu Asn Asn
          20              25              30

Tyr Val His Trp Tyr Gln Gln Arg Pro Gly Arg Ala Pro Thr Thr Val
          35              40              45

Ile Phe Asp Asp Asp Lys Arg Pro Asp Gly Val Pro Asp Arg Phe Ser
          50              55              60

Gly Ser Ile Asp Arg Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly
65              70              75              80

Leu Gln Thr Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser Tyr Val Ser
          85              90              95

Ser Phe Asn Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
          100              105              110

Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
          115              120              125

Leu Gln
          130
```

<210> 26

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
peptide

<400> 26

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Lys Ala Ala
1 5 10 15

Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu Gln
20 25 30